SIEMENS

Data sheet

3RV1011-0JA15



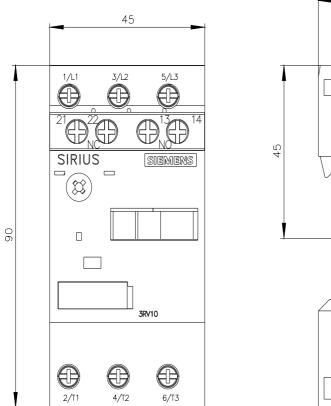
Circuit breaker size S00 for motor protection, CLASS 10 A-release 0.7...1 A N-release 13 A Screw terminal Standard switching capacity with transverse auxiliary switch 1 NO+1 NC

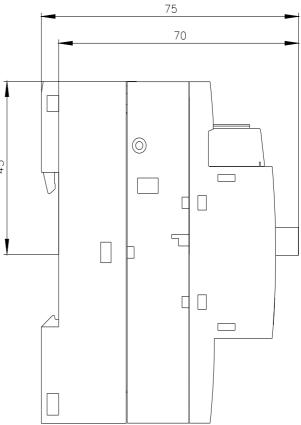
product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For motor protection
product type designation	3RV1
General technical data	
size of the circuit-breaker	S00
size of contactor can be combined company-specific	S00
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	5.5 W
 at AC in hot operating state per pole 	1.8 W
insulation voltage with degree of pollution 3 at AC rated value	690 V
surge voltage resistance rated value	6 kV
mechanical service life (operating cycles)	
 of the main contacts typical 	100 000
 of auxiliary contacts typical 	100 000
electrical endurance (operating cycles) typical	100 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	01/01/2013
SVHC substance name	Blei - 7439-92-1
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-20 +60 °C
during storage	-50 +80 °C
during transport	-50 +80 °C
relative humidity during operation	10 95 %
Main circuit	
number of poles for main current circuit	3
adjustable current response value current of the current- dependent overload release	0.7 1 A
operating voltage	
rated value	20 690 V
 at AC-3 rated value maximum 	690 V
 at AC-3e rated value maximum 	690 V
operating frequency rated value	50 60 Hz
operational current rated value	1 A
operational current	
 at AC-3 at 400 V rated value 	1 A
 at AC-3e at 400 V rated value 	1 A

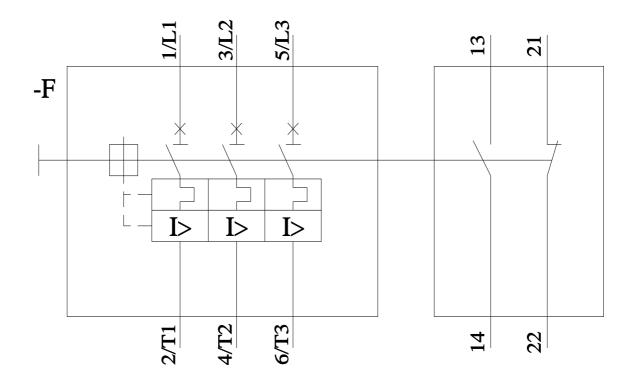
operating power	
• at AC-3	
— at 230 V rated value	0.1 kW
— at 400 V rated value	0.25 kW
— at 500 V rated value	0.4 kW
— at 690 V rated value	0.6 kW
• at AC-3e	
— at 230 V rated value	0.1 kW
— at 400 V rated value	0.25 kW
— at 500 V rated value	0.4 kW
— at 690 V rated value	0.6 kW
operating frequency	
• at AC-3 maximum	15 1/h
• at AC-3e maximum	15 1/h
Auxiliary circuit	
design of the auxiliary switch	transverse
number of NC contacts for auxiliary contacts	1
• note	1
number of NO contacts for auxiliary contacts	1
note	1
number of CO contacts for auxiliary contacts	0
operational current of auxiliary contacts at AC-15	0
	0 A
• at 24 V	2 A
• at 110 V	2 A
• at 120 V	2 A
• at 125 V	2 A
• at 230 V	0.5 A
operational current of auxiliary contacts at DC-13	
• at 24 V	1 A
• at 60 V	0.15 A
Protective and monitoring functions	0.15 A
Protective and monitoring functions product function	
Protective and monitoring functions product function • ground fault detection	0.15 A No
Protective and monitoring functions product function	No Yes
Protective and monitoring functions product function • ground fault detection	No
Protective and monitoring functions product function • ground fault detection • phase failure detection	No Yes
Protective and monitoring functions product function • ground fault detection • phase failure detection trip class	No Yes CLASS 10
Protective and monitoring functions product function • ground fault detection • phase failure detection trip class design of the overload release	No Yes CLASS 10
Protective and monitoring functions product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu)	No Yes CLASS 10 thermal
Protective and monitoring functions product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value	No Yes CLASS 10 thermal
Protective and monitoring functions product function ground fault detection phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (lcu) e at AC at 240 V rated value at AC at 400 V rated value	No Yes CLASS 10 thermal 100 kA 100 kA
Protective and monitoring functions product function ground fault detection phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) at AC at 240 V rated value at AC at 400 V rated value at AC at 500 V rated value	No Yes CLASS 10 thermal 100 kA 100 kA 100 kA
Protective and monitoring functions product function ground fault detection phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) at AC at 240 V rated value at AC at 400 V rated value at AC at 500 V rated value at AC at 690 V rated value	No Yes CLASS 10 thermal 100 kA 100 kA 100 kA
Protective and monitoring functions product function ground fault detection phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) at AC at 240 V rated value at AC at 400 V rated value at AC at 500 V rated value at AC at 690 V rated value at AC at 690 V rated value bereaking capacity (Ics) at AC	No Yes CLASS 10 thermal 100 kA 100 kA 100 kA
Protective and monitoring functions product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at AC at 240 V rated value	No Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA
Protective and monitoring functions product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 240 V rated value • at 400 V rated value	No Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA
Protective and monitoring functions product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 400 V rated value • at 500 V rated value • at 500 V rated value	No Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA
Protective and monitoring functions product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 240 V rated value • at 240 V rated value • at 500 V rated value • at 500 V rated value • at 600 V rated value • at 690 V rated value	No Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA
Protective and monitoring functions product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 240 V rated value • at 240 V rated value • at 500 V rated value • at 500 V rated value • at 690 V rated value	No Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA
Protective and monitoring functions product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (lcu) • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 240 V rated value • at 240 V rated value • at 690 V rated value	No Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA
Protective and monitoring functions product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 400 V rated value • at 400 V rated value • at 400 V rated value • at 690 V rated value	No Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA
Protective and monitoring functions product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 240 V rated value • at 240 V rated value • at 400 V rated value • at 690 V rated value	No Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA
Protective and monitoring functions product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 240 V rated value • at 500 V rated value • at 500 V rated value • at 690 V rated value	No Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA
Protective and monitoring functions product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 240 V rated value • at 240 V rated value • at 690 V rated value • at 600 V rat	No Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA
Protective and monitoring functions product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 240 V rated value • at 400 V rated value • at 240 V rated value • at 690 V rated value • at 600	No Yes CLASS 10 thermal 100 kA 100 kA
Protective and monitoring functions product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 240 V rated value • at 400 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 600 V rated value	No Yes CLASS 10 thermal 100 kA 0.5 hp
Protective and monitoring functions product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 240 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 600 V rated value • at 480 V rated value • at 600 V rated value	No Yes CLASS 10 thermal 100 kA 0.5 hp
Protective and monitoring functions product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 240 V rated value • at 240 V rated value • at 240 V rated value • at 690 V rated value • at 600 V rated value • at 600 V rated value • at 750 V rated value • at 600	No Yes CLASS 10 thermal 100 kA 13 A 0.5 hp C300 / R300 Yes
Protective and monitoring functions product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 240 V rated value • at 240 V rated value • at 240 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 600 V rated value • at 690 V rated value • at 600 V rated value • at 600	No Yes CLASS 10 thermal 100 kA 13 A 0.5 hp C300 / R300
Protective and monitoring functions product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 240 V rated value • at 240 V rated value • at 240 V rated value • at 690 V rated value • at 600 V rated value • at 600 V rated value • at 750 V rated value • at 600	No Yes CLASS 10 thermal 100 kA 13 A 0.5 hp C300 / R300 Yes

design of the fuse link for IT network for short-circuit protection of the main circuit					
• at 240 V	none required				
• at 400 V	gL/gG 10 A				
• at 500 V	gL/gG 10 A				
• at 690 V	gL/gG 10 A				
Installation/ mounting/ dimensions					
mounting position	any				
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715				
height					
width	90 mm 45 mm				
depth	75 mm				
required spacing	75 mm				
• for grounded parts at 400 V					
— downwards	20 mm				
— upwards	20 mm				
-					
— at the side • for live parts at 400 V	9 mm				
	20 mm				
— downwards — upwards	20 mm 20 mm				
— upwards — at the side	20 mm 9 mm				
 for grounded parts at 500 V 					
	20 mm				
— downwards — upwards	20 mm 20 mm				
•	20 mm 9 mm				
— at the sidefor live parts at 500 V	9 mm				
	20 mm				
— downwards	20 mm				
— upwards — at the side	20 mm				
	9 mm				
for grounded parts at 690 V	20 mm				
— downwards	20 mm				
— upwards	20 mm				
— backwards	0 mm				
— at the side	9 mm				
— forwards	0 mm				
• for live parts at 690 V					
— downwards	20 mm				
— upwards	20 mm				
— backwards	0 mm				
— at the side	9 mm				
— forwards	0 mm				
Connections/ Terminals					
type of electrical connection					
for main current circuit	screw-type terminals				
for auxiliary and control circuit	screw-type terminals				
arrangement of electrical connectors for main current circuit	Top and bottom				
type of connectable conductor cross-sections					
for main contacts					
— solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x (1 4 mm²)				
 — finely stranded with core end processing 	2x (0,5 1,5 mm ²), 2x (0,7 5 2,5 mm ²)				
type of connectable conductor cross-sections					
for auxiliary contacts					
- solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)				
tightening torque					
 for main contacts with screw-type terminals 	0.8 1.2 N·m				
 for auxiliary contacts with screw-type terminals 	0.8 1.2 N·m				
size of the screwdriver tip	Pozidriv size 2				
design of the thread of the connection screw					
for main contacts	M3				
 of the auxiliary and control contacts 	M3				
• OF THE AUXIMALY AND CONTON CONTACTS	IVIO				

Safety related data						
proportion of dangerous	failures					
with low demand rat		020	50 %			
	0					
with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN		50 % 50 FIT				
31920		g				
B10 value with high dem	and rate according	to SN 31920	5 000			
protection class IP on th	e front according to	IEC 60529	IP20			
touch protection on the	front according to I	EC 60529	finger-safe, for vertic	cal contact from	the front	
display version for switchin	lisplay version for switching status					
Approvals Certificates						
General Product Approv	al			Fo	r use in hazardou	s locations
Confirmation				-		1505
	((\!L)	E H	L	⟨£x⟩	IECE×
	ccc	UL		-	ATEX	IECEx
Declaration of Conformi	6	Toot Contificate		84	uine / Chinning	
Declaration of Conformi	ty	Test Certificate	5	IVI	arine / Shipping	
UK	~ ~	Type Test Cert		t Certific-		A A A A A A A A A A A A A A A A A A A
	CE	ates/Test Rep	<u>ert</u> <u>ate</u>			
CA	EG-Konf.				ABS	1832
						VERITAS
Marine / Shipping						other
Lloyds	(And)	ALE	CT.	3	Supraction and	Miscellaneous
Register		(32)	Q		DNV-GL	
LRS	PRS	RINA	RMRS	5	Divisi, COMON	
other		Railway				
Confirmation	^	Special Test Cer	ific-			
Oominnation	NE	<u>ate</u>	<u></u>			
	æ					
	VDE					
urther information						
Siemens has decided to https://press.siemens.com						
Siemens is working on the	*					
Please contact your local S	Siemens office on the	status of validity of t	ne EAC certification in		nport or offer to su	oply these products to an
EAC relevant market (othe		I EAEU member stat	es Russia or Belarus)).		
Information on the packa https://support.industry.sie		view/109813875				
Information- and Downlo	adcenter (Catalogs					
https://www.siemens.com/		-				
Industry Mall (Online ord https://mall.industry.sieme	iering system) <u>ns.com/mall/e</u> n/en/Ca	atalog/product?mlfb=	<u>3RV1011-0JA</u> 15			
Cax online generator						
http://support.automation.s				<u>011-0JA15</u>		
Service&Support (Manua https://support.industry.sie)			
Image database (product	t images, 2D dimens	sion drawings, 3D n			LAN macros,)	
http://www.automation.sier			011-0JA15⟨=en	1		
Characteristic: Tripping https://support.industry.sie			har			
		po. 51 (1 1 0 1 1 0 0 / (1 0 /				
Further characteristics (a http://www.automation.sien	e.g. electrical endur	ance, switching fre	uency)			







9/5/2023 🖸

11/24/2023